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- 8 -

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Patent Claims

- 5 1. Changeover valve, in particular for an automatic
transmission of a motor vehicle, having at least
one closing means (11) which is arranged in a
control plate (10) and which, in order to control
a flow, can be guided into at least two valve
10 seats (16, 17) and is arranged in a control duct
(20) which is open exclusively toward a planar
connection side (15) of the control plate (10),
wherein in an operating configuration, in a
switched-off state, the closing means (11) adopts
15 a defined initial control position (18) and
wherein the closing means (11) serves to control
the flow in at least three ducts (12, 13, 14)
which adjoin the planar connection side (15) of
the control plate (10).
20
2. Changeover valve according to claim 1,
characterized
in that the defined initial position (18),
considered in the operating configuration, lies
25 below a second control position (19) of the
closing means (11) and, in the switched-off
position, the closing means (11) is held at least
partially in the defined initial control position
(18) under the force of gravity.
30
3. Changeover valve according to claim 2,
characterized
in that in the operating configuration the control
duct (20) has at least one angle to the
35 horizontal, and in its defined initial control

position (18), the closing means (11) bears against a lower valve seat (16) in the control duct (20).

5 4. Changeover valve according to claim 3,
characterized
in that in the operating configuration, in the
control position (19), the closing means (11)
bears against an upper valve seat (17) in the
10 control duct (20).

5. Changeover valve according to claim 3 or 4,
characterized.
in that the control plate (10) has at least one
15 second duct (21) in addition to the control duct
(20), and the control duct (20) and the second
duct (21) are connected by means of a transverse
duct (22) in the control plate (10).

20 6. Changeover valve according to claim 5,
characterized
in that the transverse duct (22) is formed by a
bore.

25 7. Changeover valve according to claim 5 or 6,
characterized
in that the transverse duct (22) is outwardly
sealed off by a metal closing plate (23).

30 8. Changeover valve according to one of the preceding
claims,
characterized
in that the defined initial control position (18)
corresponds to a rebound position.

9. Changeover valve according to one of the preceding claims,
characterized
5 in that the closing means (11) is formed by a valve ball.
10. Transmission control unit having at least one changeover valve as claimed in one of the preceding claims.
- 10 11. Changeover valve according to one of claims 1 - 9, characterized
in that at least one of the valve seats (16) is integrally formed on the control plate (10).